

atctttgatg gatatgagat cgcaagggtt tcgcggcgat cgtatatttg tgaccatcag 1080
agcacgctac gactttgat tatatccttg gatTTAATCG gaagctcgca agcattgcat 1140
tgatgcaatc 1150

<210> 2
<211> 1550
<212> DNA
<213> Perkinsus sp.

<220>
<221> gene
<222> (1)..(1550)
<223> The nucleotide sequence of the NTS of rRNA of *P. andrewsi*, isolat-
ed from *Macoma balthica*.

<400> 2
tttcattt tgcttcaca accccgcacc ccatgtacaa tggccaac cactagagg 60
tcaacaacat tcggatttga caacatgtca acaattcaca acagaaattg acaacattgt 120
cacaattct caaattggac aacattggac aaaaattcac aacatacatt ggacaacagt 180
ggacaacgaa cccaaacccg acaacattgt ccaggggat agggggtgaa aaagcagtgc 240
cgccaaagtc gaaagatgtc aagttggaat gcggctcaa ttcgtcattt gtgtaaatcc 300
gcaatttgc caatgtcaa ttttgcattt gtgcatttt gcaaatgtgc aattttgcca 360
atgtgcattt ttgcaaattgc gcaatttgc aaatccgaa ttttgcattt gtgcatttt 420
ggaaaatcac caaatgaaaa tcgtccaaat cgaattggag gcgtggtgac atggtcccgg 480
gateccccgg ttacagtggc caatatcccc gcaatattcg ctgtatattt gagttcgct 540
gttttggcaa attttgagtc tgaaaaaaaaa aattgcattt ggcgaaaggg ggtgaaggaa 600
aaaaaaagcac ccccgaaaggta aaaaattccct ttaagtcattt tgccgcattt gcaaatttc 660
aaaaaattgtt gcaaatgcgc ttttgcattt tggccgggtt attgggtgtca aaagttgcct 720
gggggtggta cacaatgcac ggaattgggtt ggaagttgtg tgattgaaaa ttggcgtgt 780
cacacaattt tgccgcattt gcaaatattcg caaattggac aaaaagggt cgccgcacagt 840
caaattgcgc aaatttcaact ttgaagtggag tgccgcattt tgccgcagaa atgtggtgac 900
agcatcggtt tttataataa atattctata tttagtatct ttattataat ttgcgtcact 960
caatcaccat tttagaattt ttatttttt atgttttagt gaccggggta tttttgcaat 1020
agtactattt tgatgtttga gttgtttgaa atggcaatt tagaacatca tcagaaatcg 1080
ctgaatagt attttgagt ttgactgttt gaagtgttt gggtattcgg cagctgccaat 1140
atcggtcagg gtcgaatata atagcatttt tgggtgtata tgatatttag cgatattcatt 1200
ggaatcatgg ggtttgtat tagtacccgc tcattgtggg aatgtcggtt ggttcaatata 1260
cacctgcggaa tttaatacag gatttgcattt atgcagcgac tgaccgggtt tgggtataata 1320

gctgatttattt cggtttatata tgcagaccta tcgtgttagt agttgcgact cttggcgtga 1380
 accgaaagac cggaacttga attcgactat ttacgtccgt aaacaggaga tttcaagaat 1440
 attgcacatt ttgcgtgata taaacgtgat catctgagca cgcttcgact cttggatatc 1500
 tgctaatcag ccgtcatctg agagctcgca agcattgcaa ttgatgcaat 1550

<210> 3
 <211> 1413
 <212> DNA
 <213> Perkinsus sp.

<220>
 <221> gene
 <222> (1)..(1413)
 <223> The nucleotide sequence of the NTS of rRNA of Perkinsus mackini,
 isolated from Mercenaria mercenaria.

<400> 3
 cgtgcccttt tcacgaattc acagccccgc accccatgta caatgttgcc cacccgaaat 60
 gcctgcctgc ccacccgaaa tgcccgaaat gcccgttaga aaaagtatgc gaaaagttct 120
 tgtcaatttt gacagtgtgt gaaaaaaactg aaaaagtcca ctcaacatttgc cattatgcaa 180
 tttgccactc aacattgtcc agggggatag ggggtgaaaa agtatcgca tccaaactgaa 240
 aagatgctaa gttgaaatgc ggcgcaaattt catcaatttgc gttgcgaaaa tccctaaagt 300
 cgaatttggc actcggtgac atgatcgaaat tttccctgg ttacagtggt caaatcccag 360
 caattttggc aaagtttttgc agtttcgcac ttttcgcaaa tttcgtgtct gaaaaaaaaa 420
 tttcaacttt gcgcaaaggaa gtcaaaaggaa aaaaaaggcac cctcaaaagg aaatttccct 480
 ttaatccct ttgaaaaaaaaa tgcgcaaagt taaatttgcg aaaatttgc ttttcata 540
 tgaccgatta gttgggtgcca gatggtagtc gggatggtta cacggtgac ggaactcggt 600
 ggaagttctg gagttacaa ttgggtccgt caccacaatt tgcgatattt tgaaatttgcg 660
 caaatttgcg aaaaaaggcag cgccaaagt taaatttgc gaaaatttgc tttcaggtcg 720
 gtgcgcaaattt ttgggggtgaa aaagtggtga cagcatcaga attataataa ataatttata 780
 atctagttct tttatttataa ttagctgtca ccaatcacca tttgagattt tttatttttt 840
 tatgttttag tgaccggtt atttttcca gaggactatc gtgtatgtctg agttgtctaa 900
 aacggcaattt tcagaacattt accagaaaaac actgaatagt ggtttctgag tctgactgtt 960
 tgaagtgttt tgggttatttgc gcagctgcca attcggtcag ggttgaatat actaacattt 1020
 ctgtgtgtat atggtatttttgc gcgatatcat tggaaatcatg gggttttgtt ttagtacccg 1080
 ctcattgtgg gaaagtccggg tgggtcaata tcacctgcaa atttaataca ggatttgcatt 1140
 gatgcagcga ctgaccgggg tttagtataat agctgattat tcggcttattt atgcagaccc 1200
 atcgtgttag tagttgcgac tcttggcgtt aaccggaaaga ccggaaacttgc atttcgactt 1260

tttacgtccg taacacgtcc gtaaacagga gatttcaaga atattgcaca ttttgtgtga 1320
 tataatcgta atcatctgag cacgcttcga ctcttgaata tttgttaaac aaccgatatt 1380
 cgggagctcg caaggcattgc aattgatgca atc 1413

<210> 4
 <211> 21
 <212> DNA
 <213> Perkinsus marinus

 <220>
 <221> misc_feature
 <222> (1)..(21)
 <223> Forward primer (5'-3').

<400> 4
 cacttgtatt gtgaaggcacc c 21

<210> 5
 <211> 21
 <212> DNA
 <213> Perkinsus marinus

 <220>
 <221> misc_feature
 <222> (1)..(21)
 <223> Reverse primer (5'-3').

<400> 5
 ttggtgacat ctccaaatga c 21

<210> 6
 <211> 20
 <212> DNA
 <213> Perkinsus marinus

 <220>
 <221> misc_feature
 <222> (1)..(20)
 <223> Forward primer (5'-3').

<400> 6
 atgctagccc atagaacagt 20

<210> 7
 <211> 20
 <212> DNA
 <213> Perkinsus marinus

 <220>
 <221> misc_feature
 <222> (1)..(20)
 <223> Reverse primer (5'-3').

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<400> 7
atgctagccc acatcacagc 20

<210> 8
<211> 22
<212> DNA
<213> Perkinsus atlanticus

<220>
<221> misc_feature
<222> (1)..(22)
<223> Forward primer (5'-3')

<400> 8
atgctatgg tggttgcgga cc 22

<210> 9
<211> 20
<212> DNA
<213> Perkinsus atlanticus

<220>
<221> misc_feature
<222> (1)..(20)
<223> Reverse primer (5'-3')

<400> 9
gttagcaagcc gtagaaacagc 20

<210> 10
<211> 24
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(24)
<223> NTS7 forward primer (5'-3') for Perkinsus andrewsi

<400> 10
aagtgcattt ggaggcggtgg tgac 24

<210> 11
<211> 20
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(20)
<223> NTS6 reverse primer for Perkinsus andrewsi

<400> 11
atttgttaac caccccgaggc 20

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<210> 12
<211> 19
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(19)
<223> Generic forward primer (5'-3') PER1 for P. marinus, P. atlanticus
      and P. andrewsi.

<400> 12
tagtacccgc tcattgtgg                                19

<210> 13
<211> 17
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(17)
<223> Generic reverse PER2 primer (5'-3') for P. marinus, P. atlanticus
      and P. andrewsi

<400> 13
tgcaatgctt gcgagct                                17

<210> 14
<211> 22
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(22)
<223> Forward SSU3F primer (5'-3') for P. andrewsi

<400> 14
agtggattt ctgccttggg cg                                22

<210> 15
<211> 22
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(22)
<223> Forward SSU4F primer (5'-3') for P. andrewsi

<400> 15
accaggtcca gacataggaa gg                                22

<210> 16
<211> 712

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<212> DNA
<213> *Perkinsus* sp.

<220>
<221> misc_feature
<222> (1)..(712)
<223> A nucleotide sequence of the ITS1-5.8. S ITS2 regions of *P. andrewsi*

<400> 16
acaccgattc attctctgag aaaccagcg tctctgtaaa aggagatggg atctccgctt 60
tgtttagatc cccacacccgt accgcattaa cgggcccgggt aggtgcataa cttctatgaa 120
ccaattgtac tagtctaaag tatccaatat cctttggat tttggtattt caaaacgaaa 180
ttccaaactc tcaacgatgg atgcctcggc tcgagaatcg atgaaggacg cagcgaagt 240
cgataaggcac tgcgatttgc agaattccgt gaaccagtag aaatctcaac gcatactgca 300
caaaggggat ttatccttt tgtacataca tatcagtgtc gctcttc ccgataaaaa 360
catttgtt atttacaatc aacattatgc tttgtatccc gcttggattc ctttattggg 420
atccgctgtg tgcgcttgct gacacaggcg cattaatttgc caaggctata atactactgt 480
actgttagccc ctgcgcaaga aggactgcgc tagtgagtat ctttggatgc tcgcgaactc 540
gactgtgtt tggttgattc cgtttccctc gatcacgcga ttcatcgctt caacgcatta 600
tgtcaaattt gatgaatgca gagagttgtt tatgaattac gcgatcgctt tggctcaga 660
atcgttacta tagcacgcctt gtcggttgc aacctggcaa tatgtcatca tt 712

<210> 17
<211> 1808
<212> DNA
<213> *Perkinsus* sp.

<220>
<221> misc_feature
<222> (1)..(1808)
<223> A nucleotide sequence of the SSU rRNA of *P. andrewsi*

<400> 17
acctgggtga tcctgccagt agtcatatgc ttgtctcaaa gattaagcca tgcattgtcta 60
agtataagct ttaaacggcg aaactgcgaa tggctcatta aaacagttat agtttatttg 120
gtgatcgatt actatatttgc taaccgttagt aattcttagag ctaatacatg cgtaaggcc 180
cgacttcggaa agggctgcgt ttatttagata cagaaccaac ctgcgtccgc ctgcgttttgc 240
ttgggtgattc ataataaccc ggcgaatgc acggcttgc cggcgatgga ccattcaagt 300
ttctgaccta tcagctatgg acggtagggt attggcctac cgtggcggttgc acgggttaacg 360
ggaaatttagg gttcgattcc ggagagggag cctgagaaac gactaccaca tctaaggaag 420
gcaacaggcg cgcaaaattac ccaatcctga tacaggagg tagtgacaag aaataacaat 480

acaggccaat tctgtcttgt aatttggaaatg agtagatttt aaatctcttt acgagtatca 540
 attggagggc aagtctggtg ccagcagccg cggttaattcc agctccaata gcgtatatta 600
 aagttgtgc ggttaaaaag ctcgtatgg gatttctgcc ttgggcgacc ggtccaccc 660
 tcctacgggt taggttgta ccaggttga ccttggcttt ttcttggat tcgtgctcac 720
 gcacttaact gtgcgtcgac cgtgttccaa gactttact ttgagggaaat tagagtgtt 780
 caagcaggct tatgccgtga atacatttagc atggaataat aggatatgac tttggtcata 840
 ttttgggt ttcttaggact gaagtaatga ttaataggga cagtcggggg cattcgtatt 900
 taactgtcag aggtgaaatt cttggatttg ttaaagacga actactgcga aagcatttgc 960
 caaggatgtt ttcattgatc aagaacgaaa gttagggat cgaagacgat cagataccgt 1020
 cctagtctta accataaact atgcccacta gggattggga gtcgttaatt ttagacgctc 1080
 tcagcacctc gtgagaaatc aaagtctttg gttccgggg ggagtatggc cgcaaggctg 1140
 aaacttaaag gaattgacgg aagggcacca ccaggagtgg agcctgcggc ttaatttgc 1200
 tcaacacggg aaaactcacc aggtccagac ataggaagga ttgacagatt gatagtctt 1260
 tcttgattct atgggtggtg gtgcattggcc gttcttagt ggtggagtga tttgtctgg 1320
 taattccgtt aacgaacgag accttaacct gctaaatagt tgcgtgaaat cttgtatttc 1380
 accgtactt ctttagaggg ctgggtgtgt ttaacacaag gaagcttgag gcaataacag 1440
 gtctgtgatg cccttagatg ttctggctg cacgcgcgt acactgacac gatcaacgag 1500
 tatttccttg cccggtaggg tttaggtaat ctggtaat cgtgtcgatc tagggataga 1560
 cgattgcaat tattcgttt caacgagggaa ttccatgtaa atgcaagtca tcagcttgc 1620
 ttgattacgt ccctgccctt tgtacacacc gcccgtcgct cctaccgatt gagtgatccg 1680
 gtgagctgtc cggactgcga ttagttcagt ttctgttctt ttgcgggaa gttctgcaaa 1740
 ccttatcaact tagagggaaagg agaagtcgta acaaggtttc cgttagtgaa cctgcagaag 1800
 gatcattc 1808

<210> 18
 <211> 1147
 <212> DNA
 <213> Perkinsus atlanticus

<220>
 <221> misc_feature
 <222> (1)..(1147)
 <223> A nucleotide sequence of the NTS of rRNA of P. atlanticus

<400> 18
 tctttttaaa tcgcactcat ggcttgtca tgctgtcaag cccccggagc cccctggaca 60
 atgttatccc agctcaacaa cgagcaacag tgctatggca agtagtccac tagagagcca 120
 agtcgacaat ctctacaaca ttgtccaagg gggaaagggg ggcgcgcgaa gttgacctgc 180

agcagaggga aaagatgctg agtttgctg caccctaact ttgcgcactt ggcgaagttg	240
acttgcaggc gagggtaaaa gatgctatgg ttgggtgcgg accaagttcg ccgtgtgggt	300
catcattatc gaggtctgtg gtgacgatgg actagtttt agggatttc cgaggtgtc	360
accacggacc ccccaactt gcgcacgggg ggtactcaat tttaagtgaa atttaagtaa	420
aatttactta aaattcacgt ttttgggtgc gcaaagttga ggtgggtact ggtgacacga	480
aaattttaaa aaagagagat attaaaaaaaaa tatttatatt ttctgtgtca ccgtgtcacc	540
agtaccaca gggcgtaatt ttccggaaa tttcagatt ttccggaaaa attgcattt	600
ggggtaataa gtgtccgtca gaatttgcc aaaggactgt cgtgatgtcc gagttccaa	660
attgagggtt tttggacatc gctctgaaat cgctaacggc gtttcagatt tccgacttt	720
cgacatattc tgggtattt atagctgcc aatcggtcag cgtcgaatat tccaatattt	780
cgaaggatat atgatatcgc gagatatcat tggatttcat ggggtttgt atttagtaccc	840
gctcatcgtg ggaaagtcgg gtgaatttat tcaacccgca aatctaatac aagatttgca	900
tgtatgcagcg actgaccggg gtgagtgtag cagctgttct acggcttgct acgcagacct	960
atcggttag tagttgcac tcttggcgtg aaccggaaga ccggaccctcg ctggacta	1020
ttcattccga tgaatatgag attgcaaggg tatcgcttcg tgcgatattt agtgcatac	1080
agagcacgct acgacttcag tatatcctcg gatacacaga agctcgcaag cattgcata	1140
tgcaatc	1147

<210> 19
<211> 19
<212> DNA
<213> *Perkinsus* sp.

<220>
<221> misc_feature
<222> (1)..(19)
<223> Generic forward PER1 primer (5'-3') for *P. marinus*

<400> 19
tagtacccgc tcacgttgg 19

<210> 20
<211> 20
<212> DNA
<213> *Perkinsus marinus*

<400> 20
atgctagccc atagaacagt 20

<210> 21
<211> 20
<212> DNA
<213> *Perkinsus marinus*

<400> 21		
catctccaaa tgacctacct		20
<210> 22		
<211> 20		
<212> DNA		
<213> Perkinsus marinus		
<400> 22		
atgctagccc acatcacagc		20
<210> 23		
<211> 20		
<212> DNA		
<213> Perkinsus marinus		
<400> 23		
catctccaaa tgacctacca		20
<210> 24		
<211> 307		
<212> DNA		
<213> Perkinsus marinus		
<400> 24		
cacttgtatt gtgaaggcacc caatgctagc ccatagaaca gtccagtagt tcaatagaga		60
gactagtcaa catagtttat aacattgtcc aagggggtgga gggggatgcg cgaaatcgat		120
gtgcacgttt ggtcaaaagat gctcgcaaa gctgcacatc aatttcgcac atggcgaaa		180
ttgacttgca ggtgggtata aaagttgatg taggccatgt ggctcgattt caaccatatg		240
ggtatgcttc tgaggatggg gtgttacagt ggaccatatc aggttaggtca tttggagatg		300
tcaccaa		307
<210> 25		
<211> 307		
<212> DNA		
<213> Perkinsus marinus		
<400> 25		
cacttgtatt gtgaaggcacc caatgctagc ccacatcaca gcccagtagt tcaatagaga		60
gacgagtgaa catagtttat aacattgtcc aagggggtgga gggggatgcg cgaaatcgat		120
gtgcacgttt ggtcaaaagat gctcgcaaa gctgcacatc aatttcgcac atggcgaaa		180
ttgacttgca ggtgggtata aaagttgatg taggccatgt ggctcgattt caaccatatg		240
ggtatgcttc tgaggatggg gtgttacagt ggaccatatc tggtaggtca tttggagatg		300
tcaccaa		307